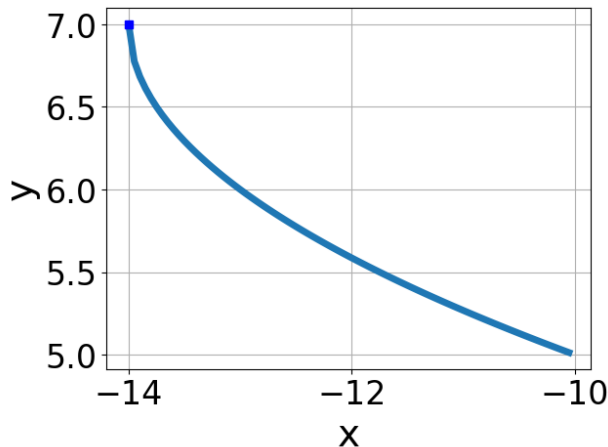


1. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x+14} + 7$
- B. $f(x) = \sqrt[3]{x+14} + 7$
- C. $f(x) = \sqrt[3]{x-14} + 7$
- D. $f(x) = -\sqrt[3]{x-14} + 7$
- E. None of the above

2. What is the domain of the function below?

$$f(x) = \sqrt[8]{-7x+3}$$

- A. $(-\infty, \infty)$
- B. $(-\infty, a]$, where $a \in [0, 2]$
- C. $[a, \infty)$, where $a \in [1.4, 5.4]$
- D. $[a, \infty)$, where $a \in [-1.9, 0.8]$
- E. $(-\infty, a]$, where $a \in [1.8, 4.7]$

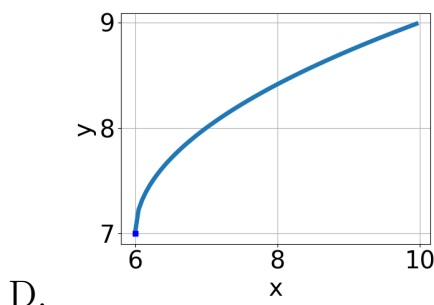
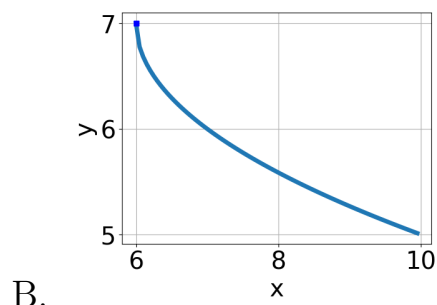
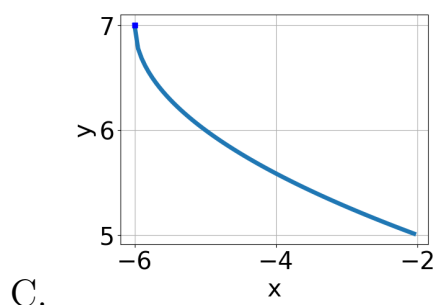
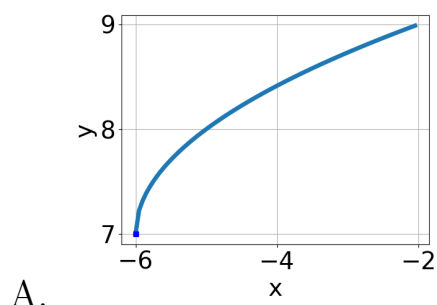
3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{35x^2 + 42} - \sqrt{-79x} = 0$$

- A. $x_1 \in [0.72, 1.71]$ and $x_2 \in [0.9, 3.5]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x \in [-1.61, -0.88]$
- D. $x \in [-0.88, -0.84]$
- E. $x_1 \in [-1.61, -0.88]$ and $x_2 \in [-1.2, 0.3]$

4. Choose the graph of the equation below.

$$f(x) = -\sqrt{x-6} + 7$$



E. None of the above.

5. What is the domain of the function below?

$$f(x) = \sqrt[4]{6x-4}$$

- A. $[a, \infty)$, where $a \in [0.51, 1.35]$
- B. $[a, \infty)$, where $a \in [1.46, 1.7]$
- C. $(-\infty, a]$, where $a \in [1.3, 4.3]$

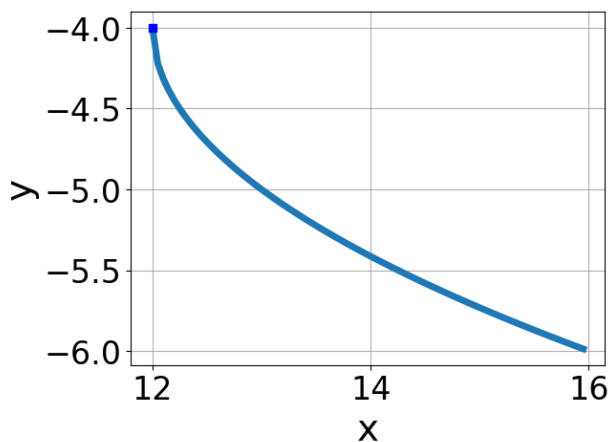
- D. $(-\infty, \infty)$
- E. $(-\infty, a]$, where $a \in [0.5, 1]$

6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-6x - 5} - \sqrt{2x + 5} = 0$$

- A. $x_1 \in [-2.6, -1.5]$ and $x_2 \in [-5.83, 1.17]$
- B. $x \in [-0.7, 1.3]$
- C. $x \in [-2.1, -0.4]$
- D. $x_1 \in [-2.1, -0.4]$ and $x_2 \in [-5.83, 1.17]$
- E. All solutions lead to invalid or complex values in the equation.

7. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt{x + 12} - 4$
- B. $f(x) = -\sqrt{x + 12} - 4$
- C. $f(x) = \sqrt{x - 12} - 4$
- D. $f(x) = -\sqrt{x - 12} - 4$
- E. None of the above

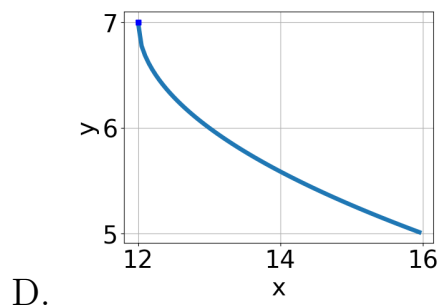
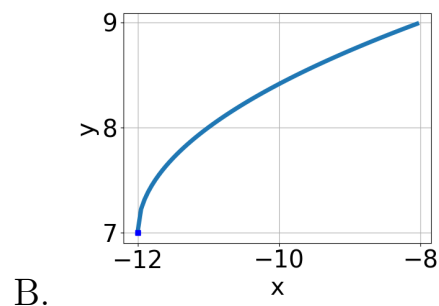
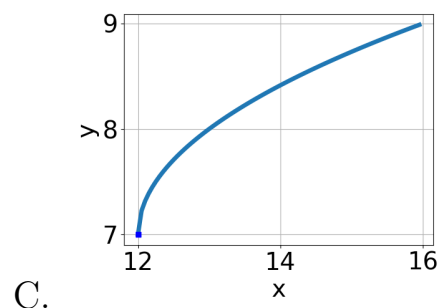
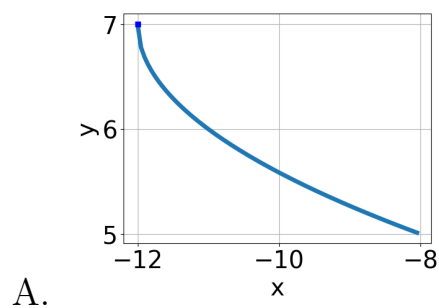
8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-9x^2 - 24} - \sqrt{33x} = 0$$

- A. $x_1 \in [2.58, 3.03]$ and $x_2 \in [-0.1, 4.2]$
- B. $x \in [-2.44, -0.68]$
- C. $x \in [-3.14, -2.26]$
- D. $x_1 \in [-3.14, -2.26]$ and $x_2 \in [-1.4, 0.9]$
- E. All solutions lead to invalid or complex values in the equation.

9. Choose the graph of the equation below.

$$f(x) = -\sqrt{x - 12} + 7$$



- E. None of the above.

10. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{4x - 6} - \sqrt{7x - 4} = 0$$

- A. $x_1 \in [-1.08, 0.01]$ and $x_2 \in [1.5, 3.5]$
 - B. $x \in [-1.08, 0.01]$
 - C. $x \in [-3.64, -3.28]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x_1 \in [-0.51, 0.84]$ and $x_2 \in [1.5, 3.5]$
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